

**PY 2002 – 2003 CPUC Energy Efficiency Program  
Quarterly Report**

Program Implementer	State and Consumer Services Agency (report submitted covers activities of SCSA staff)
Title	Local K-12 School Energy Efficiency Program
Program Reference Number	177-02
Quarter	2nd Quarter 2003
Reporting Period	April, May, June 2003

**Section 1  
Program Overview**

The California Public Utilities Commission (CPUC) awarded the State and Consumer Services Agency (SCSA) a \$4.5 million grant to implement the School Energy Efficiency (SEE) Program. The SEE Program is designed to provide a variety of energy education resources and facility improvement services free-of-charge to 55 school districts located in the counties of Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare, Yolo, El Dorado and Mariposa.

The principal objectives of the SEE Program are as follows:

- ❑ Provide classroom, professional development, and project-based learning activities designed to educate students, teachers, and school officials about energy efficiency;
- ❑ Deliver school facility improvement services to provide facility operators and administrators with technical assistance, demonstration technology, and operation and maintenance training; and
- ❑ Employ resources and activities that integrate the delivery of education and facility improvement services to promote the concept of the “school site as a teaching tool”.

To implement the SEE Program, SCSA is working with its SEE Program Implementation Team<sup>1</sup> (hereinafter ADM Team), as well as partnering with various governmental entities, including the California Integrated Waste Management Board (CIWMB), the California Department of Education (CDE), the California Energy Commission (CEC), the California Arts Council (CAC), the Department of Conservation (DOC), the U.S. Environmental Protection Agency (U.S. EPA), the Collaborative for High Performance Schools (CHPS) and the Division of the State Architect (DSA.)

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<sup>1</sup> The SEE Program Implementation Team includes ADM Associates, Inc. (ADM), Alliance to Save Energy (ASE), Strategic Energy Innovations (SEI).

## Section II Program Summary Data

### 1. Program Expenditures

A summary of expenditures by category for the 2nd Quarter, 2003 is provided in the following table.

<b>Budget Category</b>	<b>Current Quarter</b>	<b>Total to Date</b>	<b>Budgeted</b>
Administrative Costs	\$67,781.91	\$84,861.13	\$400,794.00
Marketing/Outreach	\$37,464.33	\$55,210.26	\$58,612.00
Direct Implementation Costs	\$129,000.49	\$129,000.49	\$3,818,421.00
EM&V	\$0.00	\$0.00	\$175,000.00
<b>Total</b>	<b>\$234,246.73</b>	<b>\$269,071.88</b>	<b>\$4,452,827.00</b>

Extended details of these expenditures are contained in the attached Excel workbook.

### 2. Audit/Site Surveys

See ADM's quarterly report.

### 3. Training

To fulfill the educational goal of the SEE Program, SCSA partnered with the California Regional Environmental Education Community (CREEC) Network to provide training opportunities for school district educational and facilities staff.

As a first step, SCSA worked with the ADM Team and the State CREEC Network to prepare training sessions for the local CREEC coordinators who will be out in the field providing educational outreach and training to SEE Program school district staff. During the month of June, SCSA staff held a meeting with the ADM Team, the CREEC Network Regional Manager, and the California Department of Education (CDE) staff to review and finalize the selection of educational materials that will be provided in training sessions to the participating school districts. Selected materials are currently undergoing review at the CDE for factual accuracy and compliance with California educational standards.

### 4. Marketing

Over the past quarter, SCSA staff implemented marketing/outreach efforts in the counties of Fresno, Tulare, Kings, Kern, El Dorado and Yolo. SCSA contacted the county offices of education (COEs) for these counties and for most of them, managed to schedule a presentation on the SEE Program to county superintendents. SCSA then conducted follow-up information meetings where both superintendents and school district officials heard more about the SEE Program, obtained information/marketing packets and had a chance to sign onto the program.

This approach has proven very effective to not only reach out to a wide number of school districts (e.g. as a result of SCSA's presentation at the Fresno and Kings COEs,

SCSA reached out to 64 school districts – 47 districts in Fresno County and 14 districts in Kings County), but also to recruit school districts (see School District Recruitment Chart at the end of this report.)

As the sole school district in Mariposa County and a recipient of the Unified Education Strategy (UES) grant (funded with SEE monies), the Mariposa Unified School District is now a participating school district in the SEE Program.

SCSA staff also reached out to school districts individually in one-on-one meetings and on-site presentations. Each school district touched through presentations is followed-up with by SEE Program staff via phone calls and/or email messages.

As part of its partnership with the California Arts Council (CAC), SCSA staff convened a meeting in May with the Local Arts Councils and representatives from COEs for all eleven SEE Program counties. Through the SEE Program, CAC's Local Arts Councils (LACs) and COE representatives will implement the Energy Education Through the Arts program and fund artists and community projects that teach children about energy efficiency through the various visual and performing arts media. At the LAC meeting held in Merced, SCSA gave a presentation on the SEE Program, reviewed the grant application form that artists will use to apply for SEE funding, and discussed outreach activities to better promote the SEE Program and the arts grants. In June, SCSA staff attended the opening session of the CAC's Arts Marketing Institute, where it disseminated SEE Program brochures and shared information about the program with various attendees, including representatives of school districts and COEs, as well as members of the arts community.

To further its efforts in setting up demonstration projects in the SEE Program area, SCSA staff made additional contacts with the Outdoor School of Science and Conservation operated by the Tulare COE regarding the possibility of an on-site demonstration project.

As a result of its outreach efforts to local science museums in the Central Valley, SCSA staff was successful in ensuring that an already existing energy kiosk developed through a past partnership between SCSA and the California Science Center (CSC) will be made available at the Kern County Museum and the Tulare County Children's Museum during the Fall. The energy kiosk is an exciting interactive hands-on exhibit that teaches basic energy efficiency and conservation concepts. The energy kiosk will be made available for exhibition and hands-on learning at these two Central Valley venues to educate students. Both museums are very excited about hosting this exhibit. In addition, SCSA has also conducted outreach activities related to development of an Energy Education Exhibit at the Explorit Science Center in Davis, CA. This exhibit will include three main types of activities: 1) hands-on energy-related displays, interactive games designed for K-6 children, their teachers and families; 2) school assemblies; and 3) a "green-building" demonstration project onsite.

SCSA also furthered its marketing efforts by attending various conferences to promote the SEE Program (e.g. California Association for Bilingual Educators (CABE) and the California Association of School Business Officials (CASBO).

SCSA staff contacted 35 volunteers of the Project Learning Tree<sup>2</sup> within SEE Program counties to provide them with programmatic information. An article containing an overview of the SEE Program was submitted and included in the statewide Project Learning Tree leadership newsletter.

The SCSA, particularly its SEE Program staff, is actively involved in the 2003 Governor's Environmental and Economic Leadership Awards (GEELA) selection and evaluation process. The GEELA are the most prestigious environmental/economic awards given by the Governor with categories, which include: 1) Children's Environmental Education; 2) Watershed & Ecosystem Restoration; 3) Sustainable Practices; 4) Environmental-Economic Partnerships; 5) Land Use; 6) Technology Innovation; and 7) Sustainable Facilities.

To assist in the promotion of the GEELA to the education community in the Central Valley, SCSA forwarded information on the GEELA to 15 area environmental and education groups.

### **Section III Customer Summary Data**

#### **1. Customer Count**

SCSA and ADM plan to recruit approximately 55 school districts in the SEE Program area. As described in our Request for Changes, which revised the Program Implementation Plan and was approved by the CPUC, ADM is responsible for recruiting 45 school districts in Central Valley counties, while SCSA is to recruit 10 school districts in the counties of Yolo, Mariposa and El Dorado. As of the end of June 2003, SCSA and ADM have recruited 36 school districts (see School District Recruitment Chart) and are working with them to develop their District Participation Plan (DPP).

#### **2. Customer Enrollment**

As of the end of June 03, 36 school districts have signed up to participate in the SEE Program. Although no school districts have yet completed the DPP as of the end of this quarter, SCSA staff is working directly with 5 school districts in the counties of Kings and Tulare to negotiate the DPP for each district (see Table 1 in ADM's report.<sup>3</sup>) The SEE Program team anticipates obtaining more signed DPPs as key school district staff begins returning to school from summer vacation. The SEE Program Team did obtain signed initial agreement of participation (IAP) forms from all 36 school districts.

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<sup>2</sup> Project Learning Tree (PLT) is an award-winning environmental education program whereby PLT coordinators work with the education community of K-12 schools to provide professional development programs.

<sup>3</sup> ADM staff is working with 7 other school districts in the counties of Merced, San Joaquin and Stanislaus to complete DPPs.

## **Section IV Program Implementation**

### **1. Status of Program Delivery**

The State's budget deficit and its delayed passage are requiring the need to modify certain SEE Program delivery components.

For example, in the area of after school programs, SCSA will be dealing directly with school districts and their after school programs, instead of using the California After School Partnership as an intermediary. SCSA is developing an application process for school districts' after school programs and will allocate funding to one after school program per county in all eleven counties of the SEE Program area.

With respect to the American Indian education component, SCSA is entering into an interagency agreement with the Foothill Indian Education Alliance, Inc. (FIEA) and not with the American Indian Education Office of the California Department of Education (CDE). This agreement will enable the five Indian Education Centers within the Central Valley to participate in the SEE Program by outreaching to the Native American community and student population. The FIEA will be the fiscal and program contact between the SCSA and the Indian Education Centers. In addition, SCSA is entering into a Memorandum of Understanding (MOU) with CDE's Policy and Program Coordination Unit (PPCU). Through this MOU, the SEE Program will benefit from the PPCU's valuable expertise in and many partnerships/networks with the Native American community and student population.

### **2. Program Accomplishments**

#### School District Recruitment

In spite of the challenging budgetary crisis facing the State government and a number of school districts across the board- -particularly small school districts, which represent about half of all school districts in the Central Valley- -SCSA and its subcontractor ADM, have made great progress in their recruitment efforts. Within four months of starting the implementation of the SEE Program, SCSA has already signed up 36 out of 55 targeted school districts targeted (two thirds of the overall program recruitment goal) in most of the SEE Program counties. These 36 school districts represent approximately 143,000 students.

#### Demonstration Projects

The SCSA staff has already completed 2 demonstration projects funded with SEE Program monies.

- Center for Advanced Research and Technology (CART)

In the area of SEE Program demonstration projects, SCSA has just completed a very successful project at the Center for Advanced Research and Technology (CART).<sup>4</sup> SCSA developed a demonstration project at CART with an emphasis on the energy saving opportunities resulting from greener, sustainable building design. This demonstration project included the development and implementation of an energy efficiency and green building curriculum, project and design creation guidelines, field trips, and various project-based activities – including development of an energy efficient/green building model. All of these activities were used to actively engage students in the design of a high performance architecture activity, thereby teaching them about energy efficient and sustainable building design choices. CART students were judged on their models by a panel of experts including representatives from utilities, SCSA, Department of General Services (DGS), and local government. SCSA expects that the CART project will serve as a pilot to further expand energy efficiency concepts and standards-based green building curriculum into high school architecture classes statewide.

- Discovery Science Center

SCSA funded the Discovery Science Center (DSC) to participate in numerous Energy Festivals sponsored by the Fresno Unified School District (FUSD.) DSC staff presented activity booths with hands-on, interactive energy displays to teach FUSD students, their parents and the local community about energy and energy efficiency concepts. For example, FUSD students learned about energy circuits and ways electricity can be controlled

#### Additional Partnerships Leveraged

- Rebuild America

SCSA was able to secure a partnership agreement with Rebuild America, a U.S. Department of Energy (DOE) program, whose mission is to build partnerships among communities, states, and the private sector to improve building performance, and to enable the sharing of resources to implement energy solutions for communities. This partnership will leverage SCSA's existing resources for the SEE Program by providing additional expertise and assistance to carry out activities that improve the energy efficiency of school buildings. Through the Rebuild America Partnership, SCSA will expand its relationships with a number of industry partners to provide school districts with energy efficiency resources, particularly demonstration projects in school buildings as well as facility-related training workshops.

- California Environmental Education Interagency Network (CEEIN)

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<sup>4</sup> As one of the few high school architecture programs in the state, CART is a joint magnet school for high school juniors and seniors, operated by the Fresno and Clovis Unified School Districts. CART provides intensive educational opportunities in 13 lab areas for its students using a public/private partnership model. The architecture lab at CART traditionally engages students in 4 design projects during the course of the school year. Students are provided with instruction to take them from the initial project concept through final design and model development.

As a CEEIN member, SCSA attended a meeting to provide an update on SEE Program Activities. The Air Resources Board (ARB) – also a CEEIN member - will be collaborating with SCSA to update the Energy/Air Compendium for teachers. The existing Environmental Education Compendia offer educators valuable guidance by grading curriculum in various categories. This enables educators to integrate environmental education into their standards-based lessons and promote the active learning that takes place when students are engaged in research, discussion, exploration, and application. Each compendium provides information on quality environmental education instructional materials, all of which have been teacher-evaluated in such categories as general content, presentation, and user-friendliness. The existing Compendia for Energy Resources and Air Quality served as valuable resource guides to thousand of teachers and environmental educators for five and nine years, respectively. However, with the development of new education curricula, the need to update to the compendium is imperative. The updated compendium will serve as a valuable resource to SEE Program participants, EAPP and UES grant recipients, and other educators. The ARB will provide SCSA with a \$10,000 grant to help begin the process of updating the compendium.

### **3. Program Challenges**

As one of the key components of the SEE Program delivery mechanism, SCSA has been working diligently to execute interagency agreements with its state/federal agency partners. Various factors, mainly budget uncertainties in California State government and associated State department changes in management and program priorities, have made the climate to execute interagency agreements very challenging. However, SCSA is moving forward to get all of these agreements finalized and approved (see Section V, paragraph 3 for an update on the status of these agreements.)

In addition, to respond to the state budget crisis, SCSA is currently developing necessary fiscal and program adjustments to certain delivery components of the SEE Program. SCSA is aware that certain departments involved in the SEE Program are taking substantial budget cuts or are being totally eliminated (e.g. The California Arts Council). In this context, SCSA needs to consider alternatives to ensure that the SEE Program is successfully implemented. Once the budget is signed and its full impact on SEE Program activities known, the SCSA will further advise the CPUC as to the scope of any program delivery changes.

### **4. Customer Disputes**

There have been no customer disputes in this program so far.

### **5. Compliance Items**

No non-compliance items to report at this time.

## **Section V Additional Items**

### **1. Coordination With Other Programs**

To further enhance its coordination efforts with other program implementers, SCSA staff attended and participated as a judge in the Southern California Edison (SCE) Power Up Program, an education program for 3-6<sup>th</sup> graders in Tulare county schools. Approximately 130 students prepared small group presentations on energy issues, including energy efficiency, renewable energy, safety, water use and air quality. Students also had an opportunity to watch a SCE-sponsored presentation on magnetic force and toured a traveling Energy Star display. These presentations were judged on presentation, content, research, and creativity.

As a result, SCSA staff met with SCE regional representatives at the Tulare County Agriculture Technical Assistance Center ("Ag-TAC") to discuss the SEE program and how to incorporate the Power Up Program in materials for schools in Tulare County that participate in the SEE Program.

### **2. Administrative activities**

To ensure that implementation issues are promptly identified and resolved, SCSA staff conducts regular conference calls with the SEE Program Implementation Team. Over the course of the quarter, the team decided to hold these calls every other week instead of once a week.

SCSA staff also performs routine administrative tasks, which include assessing the various equipment and process activities needed to administer this program (e.g. producing and distributing marketing materials for SEE Program field staff, compiling information packets for meetings and presentations, and researching information for web-based student and teacher resources).

The SCSA website ([www.scsa.ca.gov/energy\\_education.htm](http://www.scsa.ca.gov/energy_education.htm)) is now updated with information on the SEE Program. SCSA staff is working to ensure that links to partnering agencies' websites are established on SCSA's website. SCSA is also encouraging other organizations with whom SCSA interacts (e.g. Small School District's Association, Great Valley Center, etc.) to establish links to the SEE Program website.

On June 25<sup>th</sup>, SCSA staff held an important meeting with all SEE program partners (California Department of Education – CREEC Network and American Indian Education Office, Division of the State Architect, U.S. Environmental Protection Agency, Department of Conservation, Collaborative for High Performance Schools, California Energy Commission, the Collaborative for High Performance Schools, Strategic Energy Innovations, the Alliance to Save Energy, ADM Associates, and California Integrated Waste Management Board) to (1) create an awareness among the partners of all agencies involved in the SEE Program, (2) facilitate understanding of each partner's role in the SEE Program, (3) encourage collaboration among partners, and (4) explain procedures for preparing and submitting monthly and quarterly reports to SCSA.



### **3. Status of Interagency Agreements/Contracts with Private Entities**

As noted in Section IV, paragraph 3 (Program Challenges), SCSA is still working to finalize its remaining agreements in spite of the challenging state fiscal context. A summary of the status of the agreements is below:

- Department of Conservation (DOC): Fully executed and approved by the Department General Services; copy provided to the CPUC.
- California Arts Council (CAC): Signed by both parties, awaiting DGS approval.
- California Regional Environmental Education Community (CREEC) Network: Signed by both parties, awaiting DGS approval.
- Fresno Unified School District (as grantee of the Environmental Ambassador Pilot Program administered by the California Integrated Waste Management Board): Signed by both parties; awaiting DGS approval.
- Mariposa County Unified School District (as grantee of the Unified Education Strategy grant administered by the California Integrated Waste Management Board): Agreement sent out for the district's signature. SCSA will sign it upon receipt and forward it to DGS for final approval.
- California Department of Forestry and Fire Protection (DFFP): Signed by both parties, awaiting DGS approval. This agreement will assist the SCSA team with educational personnel.
- California Energy Commission: Sent to the CEC for their signature. SCSA will sign it upon receipt and forward it to DGS for final approval.
- Foothill Indian Education Alliance, Inc. (FIEA): Agreement in progress.
- U.S. Environmental Protection Agency (U.S. EPA): This Intergovernmental Agreement between SCSA and the U.S. EPA is in process. SCSA staff is working out necessary adjustments with the EPA to ensure compliance with the CPUC's administrative and reporting requirements.
- Collaborative for High Performance Schools (CHPS): In June, DGS approved the Non-Competitive Bid Request to execute an agreement with CHPS, a non-profit organization. SCSA staff initiated multiple phone calls with CHPS staff to finalize the agreement, including making the necessary adjustments to ensure compliance with the CPUC's administrative and reporting requirements. SCSA staff estimate that the agreement will be sent to CHPS for their signature in early August.
- Evaluation, Measurement & Verification (EM&V): SCSA has just completed contract negotiations with its EM&V contractor, Vanward Consulting who will evaluate the performance of the SEE Program. The agreement will be sent out for contractor's signature early August and work is expected to begin as soon as DGS approves this contract.

The SCSA will provide the CPUC with copies of all remaining interagency agreements, as soon they are process by the DGS legal staff.

School District Recruitment Chart  
SCSA and ADM (Combined)

Month	School District	County	No of Schools	Enrollment	Signed by:	No.
April	Lyndsay School District	Tulare	5	3,745	SCSA	1
April	Holt Union Elementary	San Joaquin	1	185	ADM	2
April	Madera County Office of Education	Madera	5	varies	ADM	3
April	Lammersville Elementary	San Joaquin	1	298	ADM	4
April	Washington USD	Yolo	13	29,466	SCSA	5
May	Kit Carson	Kings	1	404	SCSA	6
May	Kingsburg Union Elementary	Fresno	4	2,052	SCSA	7
May	Burrell Union	Fresno	1	130	SCSA	8
May	Three Rivers Union	Tulare	1	260	SCSA	9
May	Tracy Joint Unified	San Joaquin	15	14,366	ADM	10
May	Sylvan Union School District	Stanislaus	9	6,866	ADM	11
May	Turlock Joint Elementary	Stanislaus	11	13,354	ADM	12
May	Stanislaus Office of Ed (Horizon School)	Stanislaus	5	1,572	ADM	13
May	Gratton Elementary	Stanislaus	1	108	ADM	14
May	Delta View	Kings	1	90	SCSA	15
May	Merced County	Merced	4		ADM	16
May	Merced City Elementary Schools	Merced	16	11,489	ADM	17
May	Livingston Union School District	Merced	3	2,379	ADM	18
May	Merced Union High Schools	Merced	4	9,219	ADM	19
May	Earlimart Unified School District	Tulare	2	1,785	SCSA	20
May	Tulare Joint Union High	Tulare	2	4,238	SCSA	21
May	Sunnyside Union Elementary	Tulare	1	427	SCSA	22
May	Tulare County Office of Education	Tulare	3		SCSA	23
May	Stockton Unified School District	San Joaquin	41	37102	ADM	24
June	Bakersfield City School District	Kern	41	27,927	SCSA	25
June	Kern County Office of Ed	Kern	6		SCSA	26
June	Lakeside Union School District	Kern	2	980	SCSA	27
June	Lamont School District	Kern	4	2,680	SCSA	28
June	Mojave USD	Kern	8	2,660	SCSA	29
June	Ripon Unified School District	San Joaquin	5	100	ADM	30
June	Hart Ransom	Stanislaus	2	975	ADM	31
June	Oak View Union Elementary	San Joaquin	1	345	ADM	32
June	Hickman Community Charter	Stanislaus	3	1,060	ADM	33
June	Keyes Union Elementary	Stanislaus	2	1,382	ADM	34
June	New Hope Elementary School District	Stanislaus	2	1,072	ADM	35
June	Roberts Ferry Union Elementary	Stanislaus	1	80	ADM	36
<b>TOTAL</b>			227	178,796		